BRUHATH BANGALORE MAHANAGARA PALIKE,
Yelahanka Zone (Electrical Division), Bangalore.

Administrative Approval No: CE(SWM)/AS/15/2011-12
Technical Sanction No: BBMP/EE(Ele)/YZ/TS/06/2013-14
Name of the Contractor: M/S Power Tech Electricals

Comparative Statement for the Modified Estimate for Providing aerial bunch cable and additional street lighting fitting for arranging load to the bio gas power plant generation plant situated at Kuvempunagara ward no-11

SL. No	Description	Unit	As per Sanctioned Estimate			As per Modified Estimate			As per Approved Tender			As Per Execution			EXCESS	SAVINGS
			Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Fabricating supplying and and mounting MS box made out ..... SWG suitable for floor/ wall mounting , fully weather proof with provision for better heat dissipation, provided with hinged fron cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., compleate , b) 16SWG,	Sqcm	24000	0.33	7920.00	72000	0.33	23760.00	24000	0.28	6834.96	72000	0.28	20504.88	13669.9	0.00
2	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc.,Group 'A' PWD SR 2007-08	Each	2	4200.00	8400.00	8	4200.00	33600.00	2	3624.60	7249.20	8	3624.60	28996.8	21747.6	0.00
3	Supplying and fixing of 4 pole power contactor with NO/ NC contacts on existing wood/panel board using necessary bolts,nuts,washers and wiring etc,complete.with AC-3 rating as per IS-13947,c) 60-70 Amps ,	Each	4	3865.00	15460.00	8	3865.00	30920.00	4	3335.50	13341.98	8	3335.50	26683.96	13342.0	0.00
4	Supplying and fixing Miniature circuit breakers over the existing MCB distribution boards using necessary fixing materials and 'C' type curve,indicator On/OFF Energy cross -3 with short circuit breaking capacity of 10K and complete wiring as required. Make: ABB, Seimens, Legrand, L&T, MG f) 40-63 Amps TPN 1) Group 'A'	Each	4	1495.00	5980.00	8	1495.00	11960.00	4	1290.19	5160.74	8	1290.19	10321.48	5160.7	0.00
5	Supplying and fixing of porcelain fuse channel with cut out on existing wooden/panel using necessary nuts bolts and washer etc, complete c) 63 Amps	Each	6	219.00	1314.00	12	219.00	2628.00	6	189.00	1133.98	12	189.00	2267.964	1134.0	0.00
6	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc d. 35 Sqmm	Each	2	313.00	626.00	4	313.00	1252.00	2	270.12	540.24	4	270.12	1080.476	540.2	0.00
7	Supplying and fixing angle iron frame work fabricated out of M.S angle iron .. and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. . (32.9a) a) 40x40x6mm	Rmtr	8	240.00	1920.00	16	240.00	3840.00	8	207.12	1656.96	16	207.12	3313.92	1657.0	0.00
8	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I Class 'A' PVC Cable															
	e) 3.5 core 25sqmm	Per Mtr	75	215.00	16125.00	75	215.00	16125.00	75	185.55	13915.88	75	185.55	13915.875	0.0	0.00
9	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.															
	b) 25 sqmm to 75 sqmm	Rmtr	75	11.00	825.00	75	11.00	825.00	75	9.49	711.98	75	9.49	711.975	0.0	0.00
10	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr	50	50.00	2500.00	50	50.00	2500.00	50	43.15	2157.50	50	43.15	2157.5	0.0	0.00
11	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or consealed system of wiring.I Group A .c) 2.5 sqmm	Per Mtr	300	25.00	7500.00	500	25.00	12500.00	300	21.58	6472.50	500	21.58	10787.5	4315.0	0.00

12	...ing and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and shall be mounted on Octogonal pole using necessary bolts, nuts, etc., complete. a) Single Arm Bracket with 1000mm Standard	Each	25	1650.00	41250.00	60	1650.00	99000.00	25	1423.95	35598.75	60	1423.95	85437	49838.3	0.00
13	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class . a. 40 mm	Rmtr	15	240.00	3600.00	20	240.00	4800.00	15	207.12	3106.80	20	207.12	4142.4	1035.6	0.00
14	Supplying and fixing/replacement of ignitor suitable for 70 to 400 watts SV/MH fittings a) Group A	Nos	25	520.00	13000.00	60	520.00	31200.00	25	448.76	11219.00	60	448.76	26925.6	15706.6	0.00
15	Supply and fixing of 230 volts Porcelain holder for MV/SV/MH lamp b) 250-400 Watts lamp Holder	Nos	25	78.00	1950.00	60	78.00	4680.00	25	67.31	1682.85	60	67.31	4038.84	2356.0	0.00
16	Supplying and fixing HPSV lamps on existing fitting mounted on tubular pole c) 250 Watts	Nos	25	809.00	20225.00	60	809.00	48540.00	25	698.17	17454.18	60	698.17	41890.02	24435.8	0.00
17	Supply and fixing of 250 Watts heavy duty open construction ferromagnetic copper ballast for HPSV/HPMH lamps c) 250 Watts 2. Group B	Nos	25	993.00	24825.00	60	993.00	59580.00	25	856.96	21423.98	60	856.96	51417.54	29993.6	0.00
	BESCOM S.R Rates															
18	LT 3 phase 5 wire Aerial Bunched Cable of size 3X25+1X16+1X25+1X35 sqmm (Standard Stock materials 2009-10) Rs 81450/ Kmt	P/Mtr	750	81.45	61087.50	1750	81.45	142537.50	750	70.29	52718.51	1750	70.29	123009.86	70291.4	0.00
19	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (3X 50 Sq mm + 1X 16 sqmm + 1X 50 Sqmm + 1X 35 sqmm) 2.(3 X95) (for phase Conductor)+ (1X 50)(insulated messanger neutral)+(1X16)(Labour charges 2010-11) Rs 8961/Kmt	P/Mtr	750	8.96	6720.75	1750	8.96	15681.75	750	7.73	5800.01	1750	7.73	13533.35	7733.3	0.00
20	Piercing connector suitable 16 Sqmm - 95 Sqmm AB cable service connections (Standard Stock materials 2010-11)	Nos	50	210.00	10500.00	120	210.00	25200.00	50	181.23	9061.50	120	181.23	21747.6	12686.1	0.00
21	Dead End Clamp/ Anchor clamps assembly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	Nos	2	140.00	280.00	6	140.00	840.00	2	120.82	241.64	6	120.82	724.92	483.3	0.00
22	suspension clamp assemblly 25 to 95 sqmm bear messanger (Standard Stock materials 2010-11)	Nos	25	280.00	7000.00	60	280.00	16800.00	25	241.64	6041.00	60	241.64	14498.4	8457.4	0.00
23	Errection of suspension clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	Nos	25	85.00	2125.00	60	85.00	5100.00	25	73.36	1833.88	60	73.36	4401.3	2567.4	0.00
24	Errection of Anchor clamp 25 to 95 sqmm bear messanger (Labour charges 2010-11)	Nos	2	85.00	170.00	6	85.00	510.00	2	73.36	146.71	6	73.36	440.13	293.4	0.00
25	Istallation of insulation piercing connector for main to street light Main: 16 -95 sqmm,Tap: 1.5-10 sqmm (EP 95)	Nos	50	40.00	2000.00	120	40.00	4800.00	50	34.52	1726.00	120	34.52	4142.4	2416.4	0.00
26	LT I phase 3 wire Aerial Bunched Cable of size 1X25+1X16+1X25 sqmm	P/Mtr	1100	40.10	44110.00	0	40.10	0.00	1100	34.61	38066.93	0	34.61	0	0.0	38066.93
27	Striniging of 1.1 KV grade aerial bunched 3 core cable of XLPE insulation standard aluminium conductor standard around a weather resistant black XLPE insulated AAA messanger wire (1X 25 Sq mm + 1X 16 sqmm + 1X 25Sqmm + 1X 35 sqmm)	P/Mtr	1100	8.96	9857.10	0	8.96	0.00	1100	7.73	8506.68	0	7.73	0	0.0	8506.68
28	Universal Hook & Bolts and Nuts	Nos	25	280.00	7000.00	60	280.00	16800.00	25	241.64	6041.00	60	241.64	14498.4	8457.4	0.00
29	Fixing of Universal hook	Nos	25	85.00	2125.00	60	85.00	5100.00	25	73.36	1833.88	60	73.36	4401.3	2567.4	0.00
30	Casting of suitable foundation for the Octagonal Pole including designing and cost of all materials like Anchor plates,Template and washers labour charges, all other incidental charges etc,. complete as per specification and Drawing given in KPWD elect SR 2010-11(P.No 103) Detailed Calculation as per CIVIL SR items Enclosed.	Each	25	4929.74	123243.50	60	4929.74	295784.40	25	4254.37	106359.14	60	4254.37	255261.94	148902.8	0.00
31	Hire Charges Components for Tractor 50 HP ,Sl no 20, Page No XXXIV, KPWD SR CIVIL 2010-11	Day	3	2240.00	6720.00	6	2240.00	13440.00	3	1933.12	5799.36	6	1933.12	11598.72	5799.4	0.00
32	Hire Charges Components for Crane Charges ,Sl no 66, Page No XXXVI, KPWD SR CIVIL 2010-12	Day	3	3200.00	9600.00	6	3200.00	19200.00	3	2761.60	8284.80	6	2761.60	16569.6	8284.8	0.00

	...and Fixing 4 Nos of 590 mm length High Yield ...ile Cold Rolled Pitched threads (680 N/sq mm) 27 ...mm Bolt dia (Mkt Rate)	Nos	25	1350.00	33750.00	60	1350.00	81000.00	25	1165.05	29126.25	60	1165.05	69903	40776.8	0.00
	EIRL (PART-B)															
1	Laying of UG cables by Trenchless technology by adopting Horizontal boring and Drawing of Cable including preparation at site With HDPE Pipe iii) Normal Soil 6" Bore size BESCOM SR 2010-11 Labour Charges Sl No 294 Item No 27.1.2.3	Rmtr	0	0.00	0.00	25	730.00	18250.00	0	730.00	0.00	25	629.99	15749.75	15749.8	0.00
2	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable															
	e) 4 core16sqmm	Per Mtr	0	0.00	0.00	225	215.00	48375.00	0	0.00	0.00	225	185.55	41747.63	41747.6	0.00
3	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.															0.00
	b) 6 sqmm to 75 sqmm	Rmtr	0	0.00	0.00	225	11.00	2475.00	0	0.00	0.00	225	9.49	2135.93	2135.9	0.00
4	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr	0	0.00	0.00	200	50.00	10000.00	0	0.00	0.00	200	43.15	8630.00	8630.0	0.00
5	OPEN CONDUIT SYSTEM: Supplying heavy gauge PVC conduit pipe.... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screwsc) 32 mm dia 2.5mm thick	Per Mtr	0	0.00	0.00	25	62.00	1550.00	0	62.00	0.00	25	60.14	1503.50	1503.50	0.00
	Total-2				**499708.85**			**1111153.65**			**431248.74**			**959091.45**	**574416.32**	**46573.61**

AS PER SANCIONED ESTIMATE	499708.85	SANCTIONED TENDERED COST	431248.74
AS PER MODIFIED ESTIMATE	1111153.65	QUANTITY EXECUTED AS PER MODIFIED ESTIMATE	959091.45
Excess amount required	-611444.80	Excess amount required after considering TP	-527842.71

SAVINGS	46573.61
EXCESS	574416.32
TOTAL Amount required	-527842.71

Asst, Engineer,
Electrical Division
BBMP, Yelahanka Zone

Assistant Execute Engineer,
Electrical Division
BBMP, Yelahanka Zone

Executive Engineer,
Electrical Division
BBMP, Yelahanka Zone

52

BRUHATH BANGALORE MAHANAGARA PALIKE, Electrical Divisions

Form For Extra Item Rate List (Form No PWD-71 Pargraph 195 MPWD Code

Modified Estimate And Change Of Work of Construction of Electrical timer cables and power saving arrangements with all accessories in Ward No 4

Sl No	Description Of Work	Unit	Asper Qty	Rate	Amount	Whether the Items are alternative to the Item in the Tender, whether these are additional Items or sometimes in Accepted Tender	Whether the extra Items are included in the Sanctioned Estimate	How the extra cost of the Item is proposed to be met	Whether the Item is included in the SR	Remarks
1	2	3	4	5	6	7	8	9	10	11
1	Laying of UG cables by Trenchless technology by adopting Horizontal boring and Drawing of Cable including preparation at siteWith HDPE Pipe iii) Normal Soil 6" Bore sizeBESCOM SR 2010-11 Labour Charges Sl No 294 Item No 27.1.2.3	Rmtr	25	730.00	18250.00	Yes	No	-	Yes	
2	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1KV Class I. Class 'A' PVC Cable									
	e) 4 core16sqmm	Per Mtr	225	215.00	48375.00	Yes	No	-	Yes	
3	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stoneware pipe/ on wall/ on pole as required. I. In existing trench /duct.									
	b) 6 sqmm to 75 sqmm	Rmtr	225	11.00	2475.00	Yes	No	-	Yes	
4	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (As per Civil SR KSRB 1-2, P-7)b. In hard Soil	Rmtr	200	50.00	10000.00	Yes	No	-	Yes	
5	OPEN CONDUIT SYSTEM: Supplying heavy gauge PVC conduit pipe.... dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screwsc) 32 mm dia 2.5mm thick	Per Mtr	25	62.00	1550.00	Yes	No	-	Yes	
			Total		**80650.00**					

Note : **The Extra Rate List amount of Rs.80,650.00 (Rupees Eighty thousand six hundred fifty RupeesOnly)**

Junior/Asst Engineer (Ele),
Yelahanka Zone
BBMP,Bangalore-92

Asst. Exe. Engineer (ele)
Yelahanka Zone
BBMP,Bangalore-92

Executive Engineer(Ele
Yelahanka Zone
B.B.M.P, Yelahanka Zone